

On page 8, line 16, after "(SEQ ID NO:11" please add --and SEQ ID NO:7, respectively--.

On page 8, line 26, after "(SEQ ID NO:12" please add --and SEQ ID NO:8, respectively--.

On page 8, line 35, after "sequence" please add --(SEQ ID NO:49)--.

On page 9, line 2, after "neurturin" please add --(SEQ ID NO:12)--.

On page 9, line 7 after "persephin" please delete the "(" and add 1 (SEQ ID NO:105 and SEQ ID NO:111, respectively), wherein--.

On page 9, line 8 after "81" please replace the ";" with --represent--.

On page 9, line 9 after "respectively" please delete the ")".

On page 9, line 11 after "(SEQ ID NO:97)" please add 1--and amino acid sequence (SEQ ID NO:240)--.

On page 9, line 22, please replace "(SEQ ID NO:86)" with --(SEQ ID NO:107)--.

On page 9, line 27, please replace "(SEQ ID NO:240)" with --(SEQ ID NO:51)--.

On page 10, line 4, after "(TGFβ1)" please add --(SEQ ID NO:150)--.

On page 10, line 5, after "(TGFβ2)" please add --(SEQ ID NO:151)--.

On page 10, line 6, after "(TGFβ3)" please add --(SEQ ID NO:152)--.

On page 10, line 6, after "(INHβA)" please add --(SEQ ID NO:153)--.

On page 10, line 7, after "(INHβB)" please add --(SEQ ID NO:154)--.

On page 10, line 7, after "(NODAL)" please add --(SEQ ID NO:155)--.

On page 10, line 8, after "(BMP2 and BMP4)" please add --(SEQ ID NOS:156 and 157, respectively)--.

On page 10, line 9, after "(dpp)" please add --(SEQ ID NO:158)--.

On page 10, line 10, after "(BMP5, BMP6, BMP7, and BMP8)" please add --(SEQ ID NOS:159, 160, 161 and 162, respectively)--.

On page 10, line 11 after "(60A)" please add --(SEQ ID NO:163)--.

On page 10, line 11 after "(BMP3)" please add --(SEQ ID NO:164)--.

On page 10, line 12 after "gene" please add --(SEQ ID NO:165)--.

On page 10, line 13 after "GDF3" please add --(SEQ ID NOS:166 and 167, respectively)--.

On page 10, line 13 after "(drsln)" please add --(SEQ ID NO:168)--.

On page 10, line 13 after "(INHα)" please add --(SEQ ID NO:169)--.

On page 10, line 14 after "(MIS)" please add --(SEQ ID NO:170)--.

On page 10, line 14 after "(GDF-9)" please add --(SEQ ID NO:171)--.

On page 10, line 15 after "(GDNF)" please add --(SEQ ID NO:172)--.

On page 10, line 15 after "(NTN)" please add --(SEQ ID NO:173)--.

On page 13, line 13 please replace "(SEQ ID NO:106)" with --(SEQ ID NO:97)--.

On page 15, line 25 before "and" please add --(SEQ ID NO:140)--.

On page 15, line 26 before the "." please add --(SEQ ID NO:138)--.

Pursuant to 37 C.F.R. §1.121(a)(6), all of the above amendments find support in the specification, and do not introduce new matter into the application. Support for the amendments is as follows:

Figure 5 shows SEQ ID NOS:1, 2, 78, 77 and 76.

Figure 7 shows SEQ ID NO:7.

Figure 8 shows SEQ ID NO:8.

Figure 9 shows SEQ ID NOS:49 and 12.

Figure 11 shows SEQ ID NOS:105 and 111.

Figure 13 shows SEQ ID NO:240.

Figure 14 shows SEQ ID NO:107.

Figure 15 shows SEQ ID NOS:51, 241 and 242.

Figure 16 shows SEQ ID NOS:150 through 173.

SEQ ID NOS:97, 140 and 138 correspond to sequences that are in the sequence listing as originally filed, and thus are not new matter.

#### IN THE SEQUENCE LISTING:

The following amendments have been incorporated into the substitute sequence listing included in this communication, and it is requested that the sequence listing in this case (pp.122-207) be deleted and replaced with the substitute sequence listing included in this communication (pp. 122-218). Accordingly, it is also requested that pages 212-217 in the application be renumbered 219-224 to reflect the substitution of the sequence listing.

SEQ ID NO:11 has been amended to include three nucleotides that were inadvertently omitted. These are "TGA" at the 3' end. SEQ ID NO:12 has been amended to include the 3' "TGA" that were inadvertently omitted. SEQ ID NOS:240, 241 and 242 have been replaced.

In accordance with 37 C.F. R. §1.825(a), the foregoing amendments to the sequence listing do not introduce new matter, and are supported in the application as follows:

Support for the amendments to SEQ ID NOS:11 and 12 can be found at Figure 7 and Figure 8 which show these sequences, respectively.

The amendment to SEQ ID NO:240 is supported by Figure 13, which shows the sequence. The amendment to SEQ ID NO:241 is supported by Figure 15, which shows the sequence.

The amendment to SEQ ID NO:242 is supported by Figure 15, which shows the sequence.

Pursuant to 37 C.F.R. §1.825(b), a substitute computer readable form of the sequence listing has also been included. Also in accordance with 37 C.F.R. §1.825(b), it is hereby stated that the copy in computer readable form is the same as the substitute sequence listing.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Daniel S. Kasten', with a long horizontal flourish extending to the right.

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August 18, 2000